

## ABSTRACT

A digital device capable of recharging a rechargeable battery, comprising a consuming current detect unit for detecting a consuming current input to the digital device through an adapter, a control unit, a recharging current detect control unit for  
5 detecting the battery recharging current as the battery is recharged, and a recharging control unit for regulating the consuming current to the rechargeable battery in proportion to a pulse width modulation control signal output from the control unit and the battery recharging current detected by the recharging current detect control unit.